

Purchase Order Receipt Listing

Monday, March 13, 2017 10:05:49 AM

All Vendors PO ID PO35539 All Receipt Dates All Line Item Types
 All Item ID/GL/WOs All Rec. Employees All Currencies
 Grouped by Vendor ID

All amounts are calculated in domestic currency.

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID Req	Reference/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspeted Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO35539	1	DAS	M303R0.750 f		3/15/2017 3/13/2017	12.0000	\$4.72	0.0000	0	\$56.59	
CAD	No	14	303 Round Bar 0.750 f 9-89 m137043		12.0000 PLOU01		\$56.59	0.0000	0		
		DAS	M303R1.000 f		3/15/2017 3/13/2017	12.0000	\$7.16	0.0000	0	\$85.91	
		14	303 Round Bar 1.00 f 9-89 m137043		12.0000 PLOU01		\$85.91	0.0000	0		
		DAS	M6061T6B0.750X00. f		3/15/2017 3/13/2017	12.0000	\$3.46	0.0000	0	\$41.57	
		750	6061-T6 Bar .750 x f 9-89 .750 m137043		12.0000 PLOU01		\$41.57	0.0000	0		
		DAS	M6061T6B0.750X01. f		3/15/2017 3/13/2017	12.0000	\$4.08	0.0000	0	\$48.95	
		14	500 6061-T6 Bar .750 X f 9-89 1.50 m137043		12.0000 PLOU01		\$48.95	0.0000	0		
		DAS	M6061T6B1.500X02. f		3/15/2017 3/13/2017	12.0000	\$8.28	0.0000	0	\$99.34	
		14	000 6061-T6 Bar 1.50 x f 9-89 2.00 m137043		12.0000 PLOU01		\$99.34	0.0000	0		
		DAS	M6061T6B2.000X03. f		3/15/2017 3/13/2017	12.0000	\$16.90	0.0000	0	\$202.78	
		14	500 6061-T6 Bar 2.00 x f 9-89 3.50 m137043		12.0000 PLOU01		\$202.78	0.0000	0		
		DAS	M6061T6B2.500X01. f		3/15/2017 3/13/2017	12.0000	\$10.45	0.0000	0	\$125.36	
		14	500 6061-T6 Bar 2.50 x f 9-89 1.50 m137043		12.0000 PLOU01		\$125.36	0.0000	0		

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name		VC-COP001	Thyssenkrupp Materials CA Ltd								
PO35539	8	M6061T6R3.250	f		3/15/2017	3/13/2017	12.0000	\$19.58	0.0000	0	\$234.91
CAD	No	6061-T6 RD BAR 3.250"	f		12.0000	PLOU01		\$234.91	0.0000	0	
		m137043									
12	71401-45				3/15/2017	3/13/2017	1.0000	\$0.00	0.0000	0	
No	PROCUREMENT				1.0000	PLOU01					\$0.00

Total Received Quantity:	97.0000
Total Qty to Inspect (PO U/M):	0.0000
Total Reject Quantity:	0.0000
Total Receipt Value:	\$895.40
Total Balance Due Quantity:	0.0000

Monday, March 13, 2017 10:05:49 AM

Purchase Order Receipt Listing

Ship From: B I L L O F L A D I N G
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

3339
 Ship Date 10Mar17 No: PEC 3490
 Probill at 11:05 From P
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle STAN IVERS Trailer
 Slp (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G		1 Your PO # 35539	Quantity	MTR	Wt LBS
1) Our Order PEC- 26145- STAINLESS STEEL ROUND BAR .750" DIA X 144.0000"	Heat Number X6P1	Tag No 627252	12 FT	(PCS 1)	19
2) Our Order PEC- 26145- STAINLESS STEEL ROUND BAR 1.00" DIA X 144.0000"	Heat Number X5B3	Tag No 627253	12 FT	(PCS 1)	32
3) Our Order PEC- 26145- ALUMINUM SQUARE BAR .750" X 144.0000"	Heat Number 200529-3	Tag No 627254	12 FT	(PCS 1)	8
4) Our Order PEC- 26145- ALUMINUM FLAT BAR .750" X 1.50" X 144.0000"	Heat Number 201700713	Tag No 627255	12 FT	(PCS 1)	16
5) Our Order PEC- 26145- ALUMINUM FLAT BAR 1.50" X 2.00" X 144.0000"	Heat Number 201701332	Tag No 627256	12 FT	(PCS 1)	43

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 OUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Sgt-B

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
 DART AEROSPACE

No: PEC 34909
 Ship Date 10Mar17 at 11:05 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC- 26145- 6 Your PO # 35539
 ALUMINUM FLAT BAR 6061-T6511
 2.00" x 3.50" X 144.0000"

Heat Number Tag No
 201621708 627257

Quantity
 12 FT

PCS
 1

MTR Wt LBS
 100

7) Our Order PEC- 26145- 7 Your PO # 35539
 ALUMINUM FLAT BAR 6061-T6511
 1.50" x 2.50" X 144.0000"

Heat Number Tag No
 201701852 627258

Quantity
 12 FT

PCS
 1

MTR Wt LBS
 54

8) Our Order PEC- 26145- 8 Your PO # 35539
 ALUMINUM ROUND BAR 6061-T6511
 3.250" DIA X 144.0000"

Heat Number Tag No
 Z0080195 627259

Quantity
 12 FT

PCS
 1

MTR Wt LBS
 119

TOTAL: Tags PCS LBS
 8 8 391

Heat Number *** Chemical Analysis ***

200529-3
 201621708
 201700713
 201701332
 201701852
 X5B3
 X6P1
 Z0080195

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

SAT 03/18

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: (1)
 DART AEROSPACE

No: PEC 34909
 Ship Date 10Mar17 at 11:05 From PFW
 Probill
 Via VIM DELIVERY
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

B I L L O F L A D I N G

TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 1 BDL GW. 430 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERAS AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

6/1/03 B

Page: 3 Last

ALUMINIUM • LAITON • OUIVRE • PLASTIQUE • ACIER INOX
 ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

THYSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS
1.750" DIA X 144.000" PART NO.

Po/Ref 35559
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.



METALLURGICAL TEST REPORT

740 Imperial Road North

Certificate: 139555 2 Mail To:

THYSSENKRUPP MATERIALS

Customer: 007206 001 CONCORD, ON L4K5C6

Ship To:

THYSSENKRUPP MATERIALS

2821 LANGSTAFF ROAD

CONCORD, ON L4K5C6

Canada

North American Stainless Canada Inc.

740 Imperial Road North

Guelph, ON N1K1Z3

Your Order: PEC272116

NAS Order: PN 0061233 02

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw

ASTM A577/12 EN 10204 3.1, ASTM A484/11

AMS 5640U TYPE 1, QQS-74B CONDITION A

SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/ REQUIREMENTS OF DPAR 252-225-7009 EU DIRECTIVE
2011/65/EU. ROHS, EA95-AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Corrosion:

Cr

DAS
14
9-89
17/03/14

Product Id

Skid #

Diameter

Size

Weight

Length-----

Mark

Pieces

Commodity Code

BH7177 7

.7500

1.064

144.00

13

1

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# I2323

HEAT X6P1 CM C % CO % CR % CU % MN % MO % N % NI % P %

US .0452 .1550 17.1025 .3780 1.8195 .3240 .0447 8.2970 .0295

S % SI %

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS
1.00" DIA X 144.0000" PART NO.



PO/RM 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K 2Z3

Signed by:

Certificate of Mill Test Results

BL PEC-034909-002

10Mar17
Pg 1/1

740 Imperial Road North

Certificate: 130738 9 Mail To:

THYSSENKRUPP MATERIALS

2821 LANGSTAFF ROAD

Customer: 007206 001 CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Canada

Date: 1/12/2016 Page: 1
Steel: 303
Finish: CG

Your order: PEC271604
NAS Order: PN 0060474 04

Corrosion:
Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round - Back Annealed, Cold Draw
ASTM A582/12 EN 10204 3.1, ASTM A484/11
AWS 5640U TYPE 1, QQS-7643 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU-RoHS, EAF+AOE+CC. NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
14
9-89
17/03/14

product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH6660 5		1.0000	1.325	144.00	13		1	

C H E M I C A L A N A L Y S I S CM(Country of Met) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
X5B3	US	.0376	.1990	17.0865	.3320	1.8785	.2825	.0570	8.3895	.0295
		S %	SI %							

-3500 .5380

MECHANICAL PROPERTIES

Product Id	1.4 O 1 C R	HB No.	.2YB KSI	UTS KSI	RA %	Elong % AD
BH6660 5	R L	196.0	75.88	85.14	42.19	24.27

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/12/2016

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511
.750" X 144,000'
PART NO.

EXTRUDEX

ALUMINUM CORP.

PO/Rel 35539

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-034909-003
10Mar17
Pg 1/1

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

BILL TO	CERT CODE:	DIE NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
THYSSENKRUPP MATERIALS,NA	9	S 2566	Jan/03/2017	200529 - 3	362865
SHIP TO				ALEX T6511	SALESMAN FORBES DODWELL
THYSSENKRUPP MATERIALS,NA	CUSTOMER PO PEC-279420	ALLOY 6061	TEMPER T6511	MADE IN CANADA	CERTIFICATION
SO DESCRIPTION	CUSTOMER PART NUMBER 2566-S	2566-S	.750" SQ		ASTM B221-14 - AMS QQA 200/8

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Dec/20/2016	42.80	38.90	16.60	87.9,88.4,89.0	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	Y	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
3B4604	A.11	6061	0.61	0.15	0.21	0.03	0.88	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

DAS
14
9-89
17/03/14

David Natale
Quality Control Manager

1 - CUSTOMER COPY

THYSSENKRUPP MATERIALS NA

DARF-AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.750" X 1.50" X 144.000"

PART NO.



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 2,096 lbs 132 pcs
CUST. PO. PEC-280411
CUST. PART NUMBER RB0113
MANIFEST NUMBER 320425
ALLOY-TEMPER 6061-T6511
DESCRIPTION SCRB .750X1.500

SALESPERSON D.Schroeder (Canada)

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION

AMS-QQA-200/8 Rev A

OUR ORDER NUMBER	ITEM
283514	2

Made In
the U.S.A.

PO/Ref 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Signed by:

BL PEC-034909-004

10Mar17

Pg 1/1

Rev 9/3/16

Certificate of Mill Test Results

Print Date: 1/23/2017

BL PEC-034909-004

10Mar17

Pg 1/1

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Test

Lot No.

6
201700713

Test Date	Ultimate Tensile Strength [KSI]		Yield Strength [KSI]		Percent Elongation	
	min	max	min	max	min	max
1/19/17	49.60	54.00	46.90	51.00	12.70	18.00

DAS
14
17|03|14
9-89

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Li	Al	Each	Others	Total	Melt Source:
--------	---------	-------	----	----	----	----	----	----	----	----	----	------	--------	-------	--------------

01081704	201700713	6061	0.71	0.34	0.32	0.09	0.87	0.09	0.07	0.02	97.49	0.05	0.15	United States of America
11171604	201700713	6061	0.73	0.36	0.31	0.10	0.84	0.09	0.07	0.02	97.48	0.05	0.15	United States of America
11171605	201700713	6061	0.75	0.35	0.31	0.10	0.85	0.08	0.08	0.02	97.46	0.05	0.15	United States of America

THYSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.00" X 144.0000' PART NO



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

BILL TO:
ThyssenKrupp Materials NA-Concord, ON
SHIP TO:
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified
2,052 lbs 48 pcs

CUSTOMER PO:
PEC-281031
CUSTOMER PART NUMBER:
MRB0471

ALLOY/TEMPER:
6061-T6511
DESCRIPTION:
MQRB1.500x2.000



the U.S.A.

OUR ORDER NUMBER	ITEM
285786	14

DATE OF SHIPMENT:
2/28/2017

CERTIFICATION:
ASTM-B221-14 StencilCont
SPECIFICATION:
AMS-QQA-200/8 Rev-A

SALESPERSON:
D. Schroeder (Canada)

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests Lot No.

Test Date	Ultimate Tensile Strength [KSI]		Yield Strength [KSI]		Percent Elongation	
	min	max	min	max	min	max
1/30/17	47.50	49.50	43.70	46.10	14.00	15.50

DAS
14
9-89

17/03/14

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Total	Melt Source:
--------	---------	-------	----	----	----	----	----	----	----	----	----	--------	-------	--------------

01251706	201701332	6061	0.71	0.34	0.30	0.10	0.90	0.08	0.06	0.02	97.49	0.05	0.15	United States of America
----------	-----------	------	------	------	------	------	------	------	------	------	-------	------	------	--------------------------

SCM products are melted and extruded in the USA

We certify that this is a true copy of the report furnished by the producer of the metal or data resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Certificate of Mill Test Results
BL PEC-034909-005
10Mar17
Pg 1/1

Print Date: 2/28/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
2.00" x 3.50" x 144.0000"
PART NO.



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 2,392 lbs 24 pcs

MANIFEST NUMBER 317303
CUSTOMER PO PEC-279853
CUSTOMER PART NUMBER MRB0481
DATE NUMBER MRB0481
ACQ/TEMPER 6061-T6511
DESCRIPTION MQR B 2.000x3.500

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Test
Lot No.

3
201621708

Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
	min	max	min	max	min	max
12/14/16	51.90	53.00	48.80	50.10	14.50	14.90
	DAS 14 9-89		17/03/14			

Chemical Composition for Aluminum Alloy 6061

Cast#	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
11061603	201621708	6061	0.72	0.40	0.32	0.12	0.89	0.12	0.08	0.02	97.33	0.05	0.15		United States of America
11271602	201621708	6061	0.72	0.35	0.30	0.10	0.89	0.09	0.06	0.02	97.47	0.05	0.15		United States of America
11271603	201621708	6061	0.74	0.35	0.31	0.10	0.86	0.09	0.06	0.02	97.47	0.05	0.15		United States of America
11271604	201621708	6061	0.73	0.34	0.31	0.09	0.84	0.11	0.05	0.03	97.50	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

PO/Ref 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Signed by:

BL PEC-034909-006
10Mar17
Pg 1/1

Calvin L. Wiggins

Director of Quality & Technical Services

Rev 9/2016

Print Date: 12/16/2016

THYSSENKRUPP MATERIALS NA

DART-AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.50" X 2.50" X 144.0000"

PART NO.



ServiceCenter Metals

5850 Quality Way
Prince George, VA 23875

GanDo.

BILL TO:
ThyssenKrupp Materials NA-Concord, ON
SHIP TO:
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified
2,670 lbs 50pcs

CUSTOMER PO: PEC-281323
CUSTOMER PART NUMBER: MRB0657

MQRB1500X2500



OUR ORDER NUMBER	ITEM
286924	3

DATE OF SHIPMENT
2/23/2017
SALESPERSON
D. Schroeder (Canada)

CERTIFICATION
ASTM-B221-14 Stencil Cont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests

Lot No.

8
201701852

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2/10/17	min 50.30 max 53.20	min 46.50 max 49.60	min 15.80 max 18.40
	DAS 14 9.89	17/03/14	

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mag	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
001K170201Y	201701852	6061	0.74	0.38	0.32	0.10	0.90	0.10	0.09	0.03	97.36	0.05	0.15		United States of America
001K170202Y	201701852	6061	0.75	0.43	0.33	0.10	0.88	0.10	0.09	0.03	97.31	0.05	0.15		United States of America
001M170130Y	201701852	6061	0.76	0.37	0.34	0.12	0.95	0.11	0.05	0.03	97.27	0.05	0.15		United States of America
001M170131Y	201701852	6061	0.77	0.36	0.34	0.11	0.90	0.11	0.07	0.03	97.32	0.05	0.15		United States of America
01261701	201701852	6061	0.74	0.35	0.31	0.11	0.90	0.08	0.06	0.02	97.43	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

PO#E135539
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-034909-007

10Mar17
Pg 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Certificate of Mill Test Results
Print Date: 2/23/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

3.250" DIA X 144.0000"

PART NO.

PO/Rel 35539

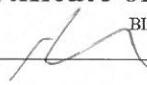
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-034909-008

10Mar17

Pg 1/2

Signed by: 

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:			
PEC-281206-1		R84/STK		KAISERSELECT PRECISON ROD 3.250 +/- .012			
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:	
6025303	001	02/14/2017		Z00080195	6061	T6511B	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		DIAM/DAF/THKNS:	WIDTH:	LENGTH:	
1054.000 LB	9.000 PCS	618210				12.000 FT	
SHIP TO:				SOLD TO:			
THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUC.	BEND
Z00080195	0001	C001	57.3	53.8	14.6	RE	94	N/A
Z00080195	0001	C002	51.6	48.1	17.6	RE	94	N/A
Z00080195	0001	C003	56.9	53.6	15.9	RE	92	N/A
Z00080195	0001	C004	56.9	53.9	15.7	RE	94	N/A
Z00080195	0002	C001	58.3	54.6	15.9	RE	92	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
IC6918	.76	.27	.31	.10	.91	.09	.05	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION - 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

DAS
14
9-89

17/03/14

Plant Serial: 00271993

Kaiser Order Number: 6025303

Line Item: 001

Page 1 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

3.250" DIA X 144.0000"

PART NO.

PO/Rel 35539

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-034909-008

10Mar17

Pg 2/2

Signed by:



KAISER
ALUMINUM
FABRICATED PRODUCTS



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager



Plant Serial: 00271993

Kaiser Order Number: 6025303

Line Item: C01

Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1303 RD .750
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D. yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	N
CORROSION	Y <input checked="" type="checkbox"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	N
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	N
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	.750
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	4582
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	HEAT# X6PI
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	1303 RD .750
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS 14 9-89 DATE: <u>17/03/14</u>	
INSPECTED BY: _____	SIGNED OFF BY: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303 R1.00
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED

THICKNESS ORDERED 1.00
 THICKNESS RECEIVED 1.00
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	N
CORROSION	Y <input checked="" type="checkbox"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	N
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	303
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	1.00
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	ASMA 582
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	HEAT# X5B3
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	M303 R1.00
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	M137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)		
DAS			
INSPECTED BY: <u>14</u>	SIGNED OFF BY: _____		
DATE: <u>17/03/14</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606 IT6 B.750X.750 PO / BATCH NO 35539/137043
 DATE 17/03/14

MATERIAL CERT REC'D.	<u>yes</u>	THICKNESS ORDERED.	<u>.750</u>
QUANTITY RECEIVED	<u>12</u>	THICKNESS RECEIVED	<u>.750</u>
QUANTITY INSPECTED	<u>12</u>	SHEET SIZE ORDERED	
QUANTITY REJECTED		SHEET SIZE RECEIVED	

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	Y <u>N</u>	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT THICKNESS	Y <u>N</u>	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT MATERIAL	Y <u>N</u>	
CORRECT REF # TO LINK CERT	Y <u>N</u>	
CORRECT MATERIAL IDENTIFICATION	Y <u>N</u>	
CORRECT M# ON THE MATERIAL	Y <u>N</u>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14 9-89	SIGNED OFF BY:
DATE:	17/03/14	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M106LIT6 B-750X1.50
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL	Y <input checked="" type="radio"/>	
CORRECT THICKNESS	Y <input checked="" type="radio"/>	.750
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT MATERIAL	Y <input checked="" type="radio"/>	ASTM B221
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	HEATH 201700713
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	M106LIT6 B-750X1.50
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE: <u>17/03/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606 ITL B1.50X2.00
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D Y/N
 QUANTITY RECEIVED 12
 QUANTITY INSPECTED 12
 QUANTITY REJECTED

THICKNESS ORDERED 1.50
 THICKNESS RECEIVED 1.50
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/>	N
CORROSION	Y <input checked="" type="radio"/>	N
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/>	N
CORRECT MATERIAL	Y <input checked="" type="radio"/>	1606 ITL
CORRECT THICKNESS	Y <input checked="" type="radio"/>	1.50
PHOTO REQUIRED	Y <input checked="" type="radio"/>	
CORRECT MATERIAL	Y <input checked="" type="radio"/>	ASTM B221
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/>	HEAT# 201701332
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/>	M606 ITL B1.50X2.00
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/>	M137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	14	SIGNED OFF BY: _____
DATE:	17/03/14	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL H6061T6B2.00X3.50
 DATE 17/03/14

PO / BATCH NO 35534/37043

MATERIAL CERT REC'D. yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED _____

THICKNESS ORDERED 2.00
 THICKNESS RECEIVED 2.00
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>H6061T6</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>2.00</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>HEAT # 201621708</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>H6061T6, B2.00X3.50</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M37043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	DAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>14</u>	SIGNED OFF BY: _____
DATE:	<u>17/03/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML061T6B2.50X150
 DATE: 17/03/14

PO / BATCH NO: 35539/137043

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.50
 THICKNESS RECEIVED: 1.50
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	10601T6
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	1.500
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ASTM B221
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HEAT# 2D1701852
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	ML061T6B2.50X1.50
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> <u>0-89</u>	SIGNED OFF BY: _____
DATE: <u>17/03/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606IT6 R3.250
 DATE: 17/03/14

PO / BATCH NO: 35539/137043

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 3.25
 THICKNESS RECEIVED: 3.25
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> X <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>606IT6</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>3.250</u>
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>FEAT# Z0080195</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M606IT6 R3.250</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> <u>9:00</u>	SIGNED OFF BY: _____
DATE: <u>17/03/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 1 of 6

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



MAR 09 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R0.750	303 Round Bar 0.750	3/15/2017 Yes 3/15/2017		12.00 f	\$5.35 6.2625	75.15 \$64.17
2	M303R1.000	303 Round Bar 1.00	3/15/2017 Yes 3/15/2017		12.00 f	\$9.51	\$114.09

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$64.17

Line Total: \$114.09

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$114.09

PO Instructions: QUOTE NO: ST-25935

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017
PO Print Date 3/9/2017

Page Number 2 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)
3 M6061T6B0.750X00.750	6061-T6 Bar .750 x .750	3/15/2017	\$4.60
		Yes	\$55.20
		3/15/2017	
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221			
4 M6061T6B0.750X01.500	6061-T6 Bar .750 X 1.50	3/15/2017	\$5.42
		Yes	\$65.00
		3/15/2017	
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221			
5 M6061T6B1.500X02.000	6061-T6 Bar 1.50 x 2.00	3/15/2017	\$10.99
		Yes	\$131.93
		3/15/2017	
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221			

PO Instructions: QUOTE NO: ST-25935

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017
PO Print Date 3/9/2017

Page Number 3 of 6

Order From : VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Buyer Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

6	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	3/15/2017	12.00	f	Line Total: \$131.93
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

7	M6061T6B2.500X01.500	6061-T6 Bar 2.50 x 1.50	3/15/2017	12.00	f	Line Total: \$269.30
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MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Sgt x 03-B.

Line Total: \$13.87	\$166.48
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PO Instructions: QUOTE NO: ST-25935

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35539

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 4 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name _____
Vendor Phone 905 669 9444

Buyer Chantal Lavoie

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer	Chantal La
Customer POID	
Customer Tax #	10127-260
Terms	Net 30
Currency	CAD
FOB	FCA - (Freight

8 M6061T6R3.250 ✓ 6061-T6 RD BAR 3.250" 3/15/2017
Yes
3/15/2017

12.00 \$26.00 \$311.96
f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

SPIR-B

Line Total: \$311.96

9 M7075T6B5.000X0.375 7075-T6 BAR 5.000" X 3/20/2017
0.375"
Yes
3/20/2017

12.00 \$24.58 \$295.00
f

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total: \$295.00

PO Instructions: QUOTE NO: ST-25935

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017
PO Print Date 3/9/2017

Page Number 5 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

10	M7075T6B6.000X0.250	7075-T6 BAR 6.000" X 0.250"	3/20/2017	12.00	\$21.33	\$256.00
			Yes	f		
			3/20/2017			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT 6 PCS AT 13.375", GRAIN DIRECTION ALONG 13.375"

11	M7075T6B7.000X2.000	7075-T6 BAR 7.000" X 2.000" (order in billets - 13.375")	3/15/2017	13.37	\$89.27	\$1,194.00
			Yes	f		
			3/15/2017			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT 12 PCS AT 13.375", GRAIN DIRECTION ALONG 13.375"

Line Total: \$256.00

Line Total: \$1,194.00

PO Instructions: QUOTE NO: ST-25935

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 6 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Buyer Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

12 71401-45 PROCUREMENT \$0.00 \$0.00
QUALITY CLAUSES 3/15/2017 1.00

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

No
3/15/2017

Line Total: \$0.00

PO Total: \$2,923.14

PO Instructions: QUOTE NO: ST-25935

CL

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 3/9/2017